

IAP4 PCT/PTO 28 NOV 2005

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November 22, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Darrell Sleep  
Application No. 10/522,074 ✓  
U.S. National Stage of PCT  
Application No. PCT/GB03/03273  
Filed July 23, 2003

Examiner: N/A  
Group Art Unit: N/A  
Confirmation No. 7594

GENE AND POLYPEPTIDE SEQUENCES

(Atty. Docket No. P30,358 USA)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail, postage prepaid, in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 22, 2005.

  
Barbara G. Makariou

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Reply to Notification of Defective Response dated October 24, 2005

Sir:

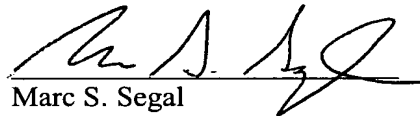
In response to the Notification of Defective Response, dated October 24, 2005,  
enclosed herewith for filing are the following documents:

- (A) Substitute sequence listing in written form;
- (B) Supplemental preliminary amendment incorporating sequence listing into the specification;

- (C) Substitute sequence listing in computer readable form (diskette);
- (D) Statement of Certification of Sequence Listing pursuant to 37 C.F.R. §§1.821(f) and 1.825(a);
- (E) A copy of the Notification of Defective Response; and
- (F) A copy of this Reply.

Please charge any deficiency or credit any overpayment to Deposit Account No. 19-5425.

Respectfully submitted,



Marc S. Segal

Reg. No. 40,163

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M:\MSegal\Clients\Eric Potter Clarkson\30,358 USA\ResponseToNotificationofDefectiveResponse.doc



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
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P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/522,074	FIRST NAMED APPLICANT Darrell Sleep	ATTY. DOCKET NO. P30,358USA
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INTERNATIONAL APPLICATION NO.
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PCT/GB03/03273

23307  
SYNNESTVEDT & LECHNER, LLP  
2600 ARAMARK TOWER  
1101 MARKET STREET  
PHILADELPHIA, PA 191072950

ENTERED COMPUTER  
11-24-05

I.A. FILING DATE 07/23/2003	PRIORITY DATE 07/23/2002
--------------------------------	-----------------------------

CONFIRMATION NO. 7594

371 FORMALITIES LETTER



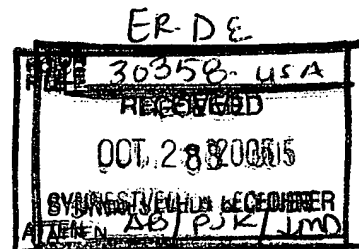
\*OC000000017288272\*

Date Mailed: 10/24/2005

## NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Priority Document
- Copy of the International Application filed on 01/21/2005
- Copy of the International Search Report filed on 01/21/2005
- Preliminary Amendments filed on 01/21/2005
- Information Disclosure Statements filed on 07/08/2005
- Biochemical Sequence Diskette filed on 07/08/2005
- Oath or Declaration filed on 07/08/2005
- Biochemical Sequence Listing filed on 07/08/2005
- Request for Immediate Examination filed on 01/21/2005
- U.S. Basic National Fees filed on 01/21/2005
- Priority Documents filed on 01/21/2005
- Power of Attorney filed on 07/08/2005
- Specification filed on 07/08/2005
- Claims filed on 07/08/2005
- Abstracts filed on 07/08/2005
- Drawings filed on 07/08/2005



Applicant's response filed 07/08/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 05/06/2005 have not been completed.

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

COPY

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/522,074	PCT/GB03/03273	P30,358USA

#6

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/522,074  
Source: 25/10  
Date Processed by STIC: 8/22/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

**BEST AVAILABLE COPY**

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/522,074

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics    The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 1      Wrapped Aminos
- 2      Invalid Line Length    The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino    The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 3      Numbering
- 4      Non-ASCII    The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length    Sequence(s)          contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0    A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 6      "bug"
- 7      Skipped Sequences    Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence (OLD RULES)
  - (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
  - (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
  - (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped  
  
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences    Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence. (NEW RULES)
 

<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's    Use of n's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES)
 

Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>    Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or Response    scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>    Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0    Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, "bug"    resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa    "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

**BEST AVAILABLE COPY**



PCT

## RAW SEQUENCE LISTING

DATE: 08/22/2005

PATENT APPLICATION: US/10/522,074

TIME: 17:07:34

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

3 <110> APPLICANT: Delta Biotechnology Limited  
 4 Darrell Sleep  
 6 <120> TITLE OF INVENTION: Gene and Polypeptide Sequences  
 8 <130> FILE REFERENCE: P30,358 USA  
 10 <140> CURRENT APPLICATION NUMBER: 10/522,074  
 C--> 11 <141> CURRENT FILING DATE: 2005-01-21  
 13 <150> PRIOR APPLICATION NUMBER: PCT/GB2003/003273  
 14 <151> PRIOR FILING DATE: 2003-07-23  
 16 <150> PRIOR APPLICATION NUMBER: GB 0217033.0  
 17 <151> PRIOR FILING DATE: 2002-07-23  
 19 <160> NUMBER OF SEQ ID NOS: 40  
 21 <170> SOFTWARE: SeqWin99  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 5  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Leader sequence  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: MISC\_FEATURE  
 33 <222> LOCATION: 1  
 34 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: MISC\_FEATURE  
 38 <222> LOCATION: 2  
 39 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 41 <220> FEATURE:  
 42 <221> NAME/KEY: MISC\_FEATURE  
 43 <222> LOCATION: 3  
 44 <223> OTHER INFORMATION: CAN BE EITHER Leu OR Val OR Ala OR Met  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: MISC\_FEATURE  
 48 <222> LOCATION: 4  
 49 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: MISC\_FEATURE  
 53 <222> LOCATION: 5  
 54 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Val OR Ala OR Met  
 56 <400> SEQUENCE: 1  
 57 Phe Ile Leu Ser Ile  
 58 1 5  
 60 <210> SEQ ID NO: 2  
 61 <211> LENGTH: 5

Does Not Comply  
 corrected Diskette Needed

What is the source of genetic material?  
 Phe can only represent itself.  
 use Xaa instead (see item 11 on Enr summary sheet)  
 and explain in (220)-(223) section  
 same even

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,074

DATE: 08/22/2005

TIME: 17:07:34

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

62 <212> TYPE: PRT  
 63 <213> ORGANISM: Artificial Sequence  
 65 <220> FEATURE:  
 66 <223> OTHER INFORMATION: Leader sequence  
 68 <220> FEATURE:  
 69 <221> NAME/KEY: MISC\_FEATURE  
 70 <222> LOCATION: 2  
 71 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: MISC\_FEATURE  
 75 <222> LOCATION: 3  
 76 <223> OTHER INFORMATION: CAN BE EITHER Leu OR Val OR Ala OR Met  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: MISC\_FEATURE  
 80 <222> LOCATION: 4  
 81 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr  
 83 <220> FEATURE:  
 84 <221> NAME/KEY: MISC\_FEATURE  
 85 <222> LOCATION: 5  
 86 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Val OR Ala OR Met  
 88 <400> SEQUENCE: 2  
 89 Phe Ile Leu Ser Ile  
 90 1 5  
 92 <210> SEQ ID NO: 3  
 93 <211> LENGTH: 5  
 94 <212> TYPE: PRT  
 95 <213> ORGANISM: Artificial Sequence  
 97 <220> FEATURE:  
 98 <223> OTHER INFORMATION: Leader sequence  
 100 <220> FEATURE:  
 101 <221> NAME/KEY: MISC\_FEATURE  
 102 <222> LOCATION: 1  
 103 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 105 <220> FEATURE:  
 106 <221> NAME/KEY: MISC\_FEATURE  
 107 <222> LOCATION: 3  
 108 <223> OTHER INFORMATION: CAN BE EITHER Leu OR Val OR Ala OR Met  
 110 <220> FEATURE:  
 111 <221> NAME/KEY: MISC\_FEATURE  
 112 <222> LOCATION: 4  
 113 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr  
 115 <220> FEATURE:  
 116 <221> NAME/KEY: MISC\_FEATURE  
 117 <222> LOCATION: 5  
 118 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Val OR Ala OR Met  
 120 <400> SEQUENCE: 3  
 121 Phe Ile Leu Ser Ile  
 122 1 5  
 124 <210> SEQ ID NO: 4

*same error*  
*use Xaa and explain*



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,074

DATE: 08/22/2005

TIME: 17:07:34

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

125 <211> LENGTH: 5  
 126 <212> TYPE: PRT  
 127 <213> ORGANISM: Artificial Sequence  
 129 <220> FEATURE:  
 130 <223> OTHER INFORMATION: Leader sequence  
 132 <220> FEATURE:  
 133 <221> NAME/KEY: MISC\_FEATURE  
 134 <222> LOCATION: 1  
 135 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 137 <220> FEATURE:  
 138 <221> NAME/KEY: MISC\_FEATURE  
 139 <222> LOCATION: 2  
 140 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 142 <220> FEATURE:  
 143 <221> NAME/KEY: MISC\_FEATURE  
 144 <222> LOCATION: 4  
 145 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr  
 147 <220> FEATURE:  
 148 <221> NAME/KEY: MISC\_FEATURE  
 149 <222> LOCATION: 5  
 150 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Val OR Ala OR Met  
 152 <400> SEQUENCE: 4  
 153 Phe Ile Val Ser Ile  
 154 1 5  
 156 <210> SEQ ID NO: 5  
 157 <211> LENGTH: 5  
 158 <212> TYPE: PRT  
 159 <213> ORGANISM: Artificial Sequence  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: Leader sequence  
 164 <220> FEATURE:  
 165 <221> NAME/KEY: MISC\_FEATURE  
 166 <222> LOCATION: 1  
 167 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 169 <220> FEATURE:  
 170 <221> NAME/KEY: MISC\_FEATURE  
 171 <222> LOCATION: 2  
 172 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 174 <220> FEATURE:  
 175 <221> NAME/KEY: MISC\_FEATURE  
 176 <222> LOCATION: 3  
 177 <223> OTHER INFORMATION: CAN BE EITHER Leu OR Val OR Ala OR Met  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: MISC\_FEATURE  
 181 <222> LOCATION: 5  
 182 <223> OTHER INFORMATION: CAN BE EITHER Ile Val OR Ala OR Met  
 184 <400> SEQUENCE: 5  
 185 Phe Ile Leu Ser Ile  
 186 1 5

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,074

DATE: 08/22/2005

TIME: 17:07:34

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

188 <210> SEQ ID NO: 6  
189 <211> LENGTH: 5  
190 <212> TYPE: PRT  
191 <213> ORGANISM: Artificial Sequence  
193 <220> FEATURE:  
194 <223> OTHER INFORMATION: Leader sequence  
196 <220> FEATURE:  
197 <221> NAME/KEY: MISC\_FEATURE  
198 <222> LOCATION: 1  
199 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
201 <220> FEATURE:  
202 <221> NAME/KEY: MISC\_FEATURE  
203 <222> LOCATION: 2  
204 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
206 <220> FEATURE:  
207 <221> NAME/KEY: MISC\_FEATURE  
208 <222> LOCATION: 3  
209 <223> OTHER INFORMATION: CAN BE EITHER Leu OR Val OR Ala OR Met  
211 <220> FEATURE:  
212 <221> NAME/KEY: MISC\_FEATURE  
213 <222> LOCATION: 4  
214 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr  
216 <400> SEQUENCE: 6  
217 Phe Ile Leu Ser Ile  
218 1 5  
220 <210> SEQ ID NO: 7  
221 <211> LENGTH: 5  
222 <212> TYPE: PRT  
223 <213> ORGANISM: Artificial Sequence  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Leader sequence  
228 <400> SEQUENCE: 7  
229 Phe Ile Val Ser Ile  
230 1 5  
232 <210> SEQ ID NO: 8  
233 <211> LENGTH: 4  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Artificial Sequence  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Leader sequence  
240 <400> SEQUENCE: 8  
241 Met Lys Trp Val  
242 1  
244 <210> SEQ ID NO: 9  
245 <211> LENGTH: 9  
246 <212> TYPE: PRT  
247 <213> ORGANISM: Artificial Sequence  
249 <220> FEATURE:  
250 <223> OTHER INFORMATION: Leader sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/522,074

DATE: 08/22/2005

TIME: 17:07:34

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

*global error*

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

252 <400> SEQUENCE: 9  
 253 Leu Phe Leu Phe Ser Ser Ala Tyr Ser  
 254 1 5  
 256 <210> SEQ ID NO: 10  
 257 <211> LENGTH: 9  
 258 <212> TYPE: PRT  
 259 <213> ORGANISM: Artificial Sequence  
 261 <220> FEATURE:  
 262 <223> OTHER INFORMATION: Leader sequence  
 264 <220> FEATURE:  
 265 <221> NAME/KEY: MISC\_FEATURE  
 266 <222> LOCATION: 1  
 267 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 269 <220> FEATURE:  
 270 <221> NAME/KEY: MISC\_FEATURE  
 271 <222> LOCATION: 2  
 272 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 274 <220> FEATURE:  
 275 <221> NAME/KEY: MISC\_FEATURE  
 276 <222> LOCATION: 3  
 277 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 279 <220> FEATURE:  
 280 <221> NAME/KEY: MISC\_FEATURE  
 281 <222> LOCATION: 4  
 282 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 284 <220> FEATURE:  
 285 <221> NAME/KEY: MISC\_FEATURE  
 286 <222> LOCATION: 5  
 287 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr OR Gly OR Tyr OR Ala  
 289 <220> FEATURE:  
 290 <221> NAME/KEY: MISC\_FEATURE  
 291 <222> LOCATION: 6  
 292 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr OR Gly OR Tyr OR Ala  
 294 <220> FEATURE:  
 295 <221> NAME/KEY: MISC\_FEATURE  
 296 <222> LOCATION: 7  
 297 <223> OTHER INFORMATION: CAN BE EITHER Ile OR Leu OR Val OR Ala OR Met  
 299 <220> FEATURE:  
 300 <221> NAME/KEY: MISC\_FEATURE  
 301 <222> LOCATION: 8  
 302 <223> OTHER INFORMATION: CAN BE EITHER Phe OR Trp OR Tyr  
 304 <220> FEATURE:  
 305 <221> NAME/KEY: MISC\_FEATURE  
 306 <222> LOCATION: 9  
 307 <223> OTHER INFORMATION: CAN BE EITHER Ser OR Thr OR Gly OR Tyr OR Ala  
 309 <400> SEQUENCE: 10  
 310 Ile Phe Ile Phe Ser Ser Ile Phe Ser  
 311 1 5  
 313 <210> SEQ ID NO: 11

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/22/2005  
PATENT APPLICATION: US/10/522,074      TIME: 17:07:35

Input Set : A:\10-522,074 SEQLIST 20050630.txt  
Output Set: N:\CRF4\08222005\J522074.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 5,6,7,8,9

Seq#:13; Xaa Pos. 5,6,7,8,9

Seq#:14; Xaa Pos. 5,6,7,8,9

Seq#:15; N Pos. 12

Seq#:16; N Pos. 9,12

Seq#:31; Xaa Pos. 5,6,7,8,9

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/522,074

DATE: 08/22/2005

TIME: 17:07:35

Input Set : A:\10-522,074 SEQLIST 20050630.txt

Output Set: N:\CRF4\08222005\J522074.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0